

LISTING OF CLAIMS

1. (cancelled)

2. (currently amended) A collision avoidance system for a vehicle, comprising:
a warning device;

a plurality of sensors that are arranged around the vehicle and that have sensing zones, wherein each of said sensors sense objects that are located in respective ones of said sensing zones and generate sensor signals that are related to a distance between respective ones of said sensors and the objects located in said sensing zones;

memory that stores a plurality of location profiles, each location profile associated with a different operational location of the vehicle, wherein each of said location profiles defines at least one alarm limit for each of said sensors suitable for the current location of the vehicle;

a vehicle collision avoidance controller that communicates with said plurality of sensors and that triggers said warning device when said sensor signal that is associated with one of said plurality of sensors exceeds a respective one of said alarm limits in said selected location profile;

a location profile selection device that allows user selection ~~one of~~ from among said plurality of location profiles from said memory as the vehicle travels among various locations; and

a location profile setting module that allows at least one of creation, editing and deletion of said location profiles as the vehicle travels among various locations.

3. (currently amended) The collision avoidance system of Claim 2 further comprising a security module that restricts access to said location profiles based on a security protocol.

4. (previously amended) The collision avoidance system of Claim 2 wherein at least one of said plurality of sensors wirelessly communicates with said vehicle collision avoidance controller.

5. (currently amended) The collision avoidance system of Claim 2 further comprising:

a vehicle positioning system that generates vehicle position signals identifying a position of said vehicle relative to a fixed coordinate system; and

an automatic location profile selection module that receives said position signals and that automatically selects one of said location profiles based on said position signals.

6. (previously amended) The collision avoidance system of Claim 2 further comprising a configuration module that automatically configures said collision avoidance system when said sensors are connected to said vehicle collision avoidance controller.

7. (previously amended) The collision avoidance system of Claim 2 wherein said warning device includes a display that concurrently displays a status of said sensors.

8. (original) The collision avoidance system of Claim 7 wherein said display includes red, green and blue visual states for each of said sensors.

9. (previously amended) The collision avoidance system of Claim 2 wherein said sensors are located at least one of a front of said vehicle, on sides of said vehicle, a rear of said vehicle, on side of a device connected to said vehicle, and on a rear of said device connected to said vehicle.

10. (cancelled)

11. (currently amended) A collision avoidance system for a vehicle, comprising:

a warning device;

a plurality of sensors that are arranged around the vehicle and that have sensing zones, wherein each of said sensors sense objects that are located in respective ones of said sensing zones and generate sensor signals that are related to a distance between respective ones of said sensors and the objects in said sensing zones;

memory that stores a plurality of location profiles, each location profile associated with a different operational location of the vehicle, wherein each of said location profiles defines at least one alarm limit for each of said sensors suitable for the current location of the vehicle;

a vehicle positioning system that generates vehicle position signals identifying a position of said vehicle relative to a fixed coordinate system;

an automatic location profile selection module that receives said position signals and that automatically selects one of said location profiles based on said position signals;

a vehicle collision avoidance controller that communicates with said plurality of sensors and that triggers said warning device when said sensor signal that is associated with one of said plurality of sensors exceeds a respective one of said alarm limits in said selected location profile;

a location profile selection device that allows user selection ~~one of~~ from among said plurality of location profiles from said memory as the vehicle travels among various locations; and

a location profile setting module that allows at least one of creation, editing and deletion of said location profiles as the vehicle travels among various locations.

12. (currently amended) The collision avoidance system of Claim 11 further comprising a security module that controls access to said location profiles based on a security protocol.

13. (previously amended) The collision avoidance system of Claim 11 wherein at least one of said plurality of sensors wirelessly communicates with said vehicle collision avoidance controller.

14. (previously amended) The collision avoidance system of Claim 11 wherein said warning device includes a display that concurrently displays a status of said sensors.

15. (previously amended) The collision avoidance system of Claim 14 wherein said display includes red, green and blue visual states for each of said sensors.

16. (previously amended) The collision avoidance system of Claim 11 wherein said sensors are located at least one of a front of said vehicle, on sides of said vehicle, a rear of said vehicle, on side of a device connected to said vehicle, and on a rear of said device connected to said vehicle.

17. (cancelled)

18. (currently amended) A method for avoiding collisions between a vehicle and objects, comprising:

arranging sensors having sensing zones around the vehicle;

generating sensor signals that are related to a distance between respective ones of said sensors and objects in said sensing zones;

generating and storing a plurality of location profiles, each location profile associated with a different operational location of the vehicle, wherein each of said location profiles defines at least one alarm limit for each of said sensors suitable for the current location of the vehicle;

triggering a warning when said sensor signal that is associated with one of said plurality of sensors exceeds a respective one of said alarm limits in said selected location profile;

selecting ~~one of~~ from among said plurality of location profiles from said memory as a selected location profile as the vehicle travels among various locations; and

allowing at least one of creation, editing and deletion of said location profiles as the vehicle travels among various locations.

19. (currently amended) The method of Claim 18 further comprising controlling access to said location profiles using a security protocol.

20. (previously amended) The method of Claim 18 further comprising using wireless communications to communicate with said sensors.

21. (currently amended) The method of Claim 18 further comprising:
generating vehicle position signals identifying a position of said vehicle relative to
a fixed coordinate system; and
automatically selecting one of said location profiles based on said vehicle
position signals.

22. (original) The method of Claim 21 further comprising performing automatic
configuration when said sensors are connected.

23. (previously amended) The method of Claim 18 further comprising using a plurality
of visual states for each of said sensors to identify a position of said object relative to said
vehicle.